

Listing of Claims

1. (Original) A method of recovering from a failure of a primary distribution processor which provides secure communications over a network in a distributed workload environment having target hosts which are accessed through the primary distribution processor by a common network address, the method comprising the steps of:

 providing to a backup distribution processor information sufficient to restart communications through the primary distribution processor utilizing network security;

 detecting the failure of the primary distribution processor;

 restarting the communications utilizing network security at the backup distribution processor utilizing the provided information;

 routing both inbound and outbound communications with target hosts utilizing the common network address and which are associated with a secure network communication through the backup distribution processor; and

 processing the inbound and outbound secure network communications at the backup distribution processor so as to provide network security processing of the inbound and outbound communications.

2. (Original) A method according to Claim 1, further comprising the step of maintaining information sufficient to restart communications through the backup distribution processor accessible to at least one distribution processor other than the backup distribution processor.

3. (Original) A method according to Claim 1, wherein the step of providing information sufficient to restart communications comprises the steps of transmitting network security information from which network security relationships associated with the communications through the primary distribution processor utilizing network security can be re-established at the backup distribution processor from the primary distribution processor to the backup distribution processor prior to failure of the primary distribution processor.

4. (Original) A method according to Claim 1, wherein the step of providing information sufficient to restart communications comprises the step of storing in a common storage accessible to the backup distribution processor, network security information from which network security relationships associated with the communications through the primary distribution processor can be re-established at the backup distribution processor.

5. (Original) A method according to Claim 4, wherein the step of restarting the communications utilizing network security at the backup distribution processor utilizing the provided information, comprises the following steps carried out by the backup distribution processor:

obtaining the network security information from the common storage;
establishing the security relationships associated with the communications through the primary distribution processor at the backup distribution processor; and
notifying target hosts associated with the communications that the backup distribution processor has taken ownership of the communications.

6. (Original) A method according to Claim 5, further comprising the step of clearing the network security information from the common storage subsequent to the backup distribution processor obtaining the network security information from the common storage.

7. (Original) A method according to Claim 5, further comprising the step of storing in the common storage, network security information from which network security relationships associated with the communications through the backup distribution processor can be re-established at another distribution processor.

8. (Original) A method according to Claim 5, further comprising the step of identifying as non-distributed communications, communications to the backup distribution processor utilizing network security which were previously distributed communications routed through the primary distribution processor.

9. (Original) A method according to Claim 5, wherein the network security comprises Internet Protocol Security (IPSec).

10. (Original) A method according to Claim 9, wherein the network security information stored in the common storage includes at least one of Phase 1 Security Association (SA) information, Phase 2 SA information and information relating the Phase 1 SA information to the Phase 2 SA information.

11-19. Cancelled.

20. (Original) A system for recovering from a failure of a primary distribution processor which provides secure communications over a network in a distributed workload environment having target hosts which are accessed through the primary distribution processor by a common network address, comprising:

means for providing to a backup distribution processor information sufficient to restart communications through the primary distribution processor utilizing network security;

means for detecting the failure of the primary distribution processor;

means for restarting the communications utilizing network security at the backup distribution processor utilizing the provided information;

means for routing both inbound and outbound communications with target hosts utilizing the common network address and which are associated with a secure network communication through the backup distribution processor; and

means for processing the inbound and outbound secure network communications at the backup distribution processor so as to provide network security processing of the inbound and outbound communications.

21. Cancelled.

22. (Original) A computer program product for recovering from a failure of a primary distribution processor which provides secure communications over a network in a

distributed workload environment having target hosts which are accessed through the primary distribution processor by a common network address, comprising:

 a computer readable medium having computer readable program code embodied therein, the computer readable program code comprising:

 computer readable program code which provides to a backup distribution processor information sufficient to restart communications through the primary distribution processor utilizing network security;

 computer readable program code which detects the failure of the primary distribution processor;

 computer readable program code which restarts the communications utilizing network security at the backup distribution processor utilizing the provided information;

 computer readable program code which routes both inbound and outbound communications with target hosts utilizing the common network address and which are associated with a secure network communication through the backup distribution processor; and

 computer readable program code which processes the inbound and outbound secure network communications at the backup distribution processor so as to provide network security processing of the inbound and outbound communications.

23. Cancelled.